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**DEPARTMENT OF THE INTERIOR****Fish and Wildlife Service****50 CFR Part 17****Listing the Oregon Silverspot Butterfly as a Threatened Species With Critical Habitat**

**AGENCY:** Fish and Wildlife Service, Interior.

**ACTION:** Final rule.

**SUMMARY:** The Service determines the Oregon silverspot butterfly (*Speyeria zerene hippolyta*) to be a Threatened species. This action is being taken because all known populations of the butterfly are small, limited in range, and threatened by housing development and recreational activities. The Oregon silverspot butterfly is known to occur only at a few sites on the central Oregon coast and at one site in Washington. Critical Habitat in Oregon is included with this final rule. The rule will provide protection to wild populations of this species.

**DATE:** This rule becomes effective on October 15, 1980.

**ADDRESSES:** Questions concerning this action may be addressed to Lynn A. Greenwalt, Director, U.S. Fish and Wildlife Service, Washington D.C. 20240.

**FOR FURTHER INFORMATION CONTACT:** Mr. John L. Spinks, Jr., Chief, Office of Endangered Species, U.S. Fish and Wildlife Service, (703/235-2771).

**SUPPLEMENTARY INFORMATION:**

**Background**

The Oregon silverspot butterfly is an orange and brown butterfly with silver spots on the underwings, and belongs to the family Nymphalidae. The butterfly formerly occurred along the coasts of Washington and Oregon, but most of the colonies have been extirpated due to housing or park development. Only one healthy colony is known. The main threats to the butterfly are housing development and increased recreational use of the coastal areas to which it is restricted.

The Oregon silverspot butterfly was included by the Service in a March 20, 1975 status of review (40 FR 12891) seeking information to determine whether this butterfly should be

proposed for listing as an Endangered or Threatened species.

On July 3, 1978, the Service published a proposed rulemaking in the *Federal Register* (43 FR 28938-45) advising that sufficient evidence was on file to support a determination that the Oregon silverspot butterfly was a Threatened species pursuant to the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*). That proposal summarized the factors thought to be contributing to the likelihood that this species could become Endangered within the foreseeable future, specified the prohibitions which would be applicable if such a determination were made, and solicited comments, suggestions, objections, and factual information from any interested person. Section 4(b)(1)(A) of the Act requires that the Governor of each State or Territory, within which a resident species of wildlife is known to occur, be notified and be provided 90 days to comment before any such species is determined to be a Threatened species or an Endangered Species. A letter was sent to the Governor of Oregon on July 14, 1978, notifying him of the proposed rulemaking for the Oregon silverspot butterfly. On July 14, 1978, a memorandum was sent to the Service Directorate and affected Regional personnel, and letters were sent to other interested parties notifying them of the proposal and soliciting their comments and suggestions. On March 26, 1980, the Service published a rulemaking in the *Federal Register* (45 FR 19864-65) repropoing Critical Habitat for the Oregon silverspot butterfly, to comply with the 1978 Endangered Species Act Amendments. A letter notifying the Governor of Oregon of this action, a memorandum to affected Regional personnel, and letters to other interested parties were sent on March 31, 1980. A public meeting and a public hearing on the reproposal of Critical Habitat for the Oregon silverspot butterfly were held at New Port, Oregon on April 15 and April 29, 1980.

Official comment was received from the Governor of Oregon, the Oregon Office of State Forester, the Division of State Lands, and the U.S. Forest Service.

#### Summary of Comments and Recommendations

Section 4(b)(1)(C) of the Act requires that a summary of all comments and recommendations received be published in the *Federal Register* prior to adding any species to the list of Endangered and Threatened Wildlife and Plants.

In the July 3, 1978 proposal (43 FR 28938-45) to list the Oregon silverspot butterfly as a Threatened species, the

March 26, 1980 proposal of Critical Habitat (45 FR 19860-61), and the respective Press Releases, all interested parties were invited to submit factual reports or information which might contribute to the formulation of a final rulemaking.

All comments received from July 3 to September 1, 1978 regarding the proposal to list the Oregon silverspot butterfly as Threatened were considered. Comments regarding the reproposal of Critical Habitat received from March 26 to May 27, 1980 were considered. Additional opportunity for public comment was provided by the April 15, 1980, public meeting and the April 29, 1980, public hearing.

In response to the July 3, 1978 proposal, eight comments were received. Two conservation organizations, the Xerces Society and the International Union for Conservation of Nature and Natural Resources, supported the proposal.

Dr. Frederick Rindge, Curator of Lepidoptera at the American Museum of Natural History, noted that the distribution of this subspecies was uncertain, and opposed listing it, but supported Critical Habitat designation in order to protect the salt spray meadow habitat. Dr. Lee Miller of the Allyn Museum of Entomology felt that including the Tenmile Creek area within Critical Habitat for the butterfly might have been done as a "land-grab" to prevent development. Dr. Ralph Macy of Portland State University supported the proposal. Dr. David McCorkle of the Oregon College of Education reported that the Tenmile Creek site might be unsuitable for the butterfly due to habitat modification. The U.S. Forest Service supported the listing proposal but recommended that the Tenmile Creek site be excluded from the Critical Habitat. Robert Langston, a lepidopterist, supported the listing proposal.

In response to the March 26, 1980, reproposal of Critical Habitat for the Oregon silverspot butterfly, six comments were received. The Governor of Oregon supported listing the butterfly and designation of its Critical Habitat. The Oregon Office of State Forester expressed concern about possible impacts on private lands resulting from Critical Habitat designation on adjacent Federal lands, and possible effects on timber supply in Lane County. A non-substantive comment was received from the Oregon Division of State Lands. Two private citizens supported the listing proposal and Critical Habitat designation; one of these letters urged inclusion of the Tenmile Creek area in the Critical Habitat designation.

Dr. Robert Pyle, representing the Lepidoptera Specialist Group of the Survival Service Commission of the International Union for Conservation of Nature and Natural Resources, restated that organization's support for the listing proposal and designation of Critical Habitat. Dr. Pyle stated that the Oregon silverspot butterfly probably still occurred on the Long Beach Peninsula in the State of Washington, although its habitat there was severely restricted and threatened by development.

At the April 15, 1980, public meeting, four private individuals, including three entomologists, supported the listing proposal. A representative of the Forest Service supported the proposal, subject to the Forest Service's recommendations on Critical Habitat, which were presented in March 27 and May 27, 1980, letters to the Fish and Wildlife Service. These letters supported the designation of Critical Habitat but recommended a change in the eastern boundary. Mr. Hugh Sherwood, a landowner in the area proposed as Critical Habitat, opposed Critical Habitat designation for his property because he believed that such designation would lower the value of his land, particularly with regard to a potential buyer, Mr. Victor Renaghan, who held an option to buy the property. Mr. Sherwood felt that Critical Habitat designation would prevent development of the type planned by Mr. Renaghan. Mr. Sherwood also believed that the salt spray meadow was man-made, and that in the absence of human activities the meadow and the Oregon silverspot butterfly would disappear due to overgrowth by shrubs, especially salal (*Gaultheria shallon*).

At the April 29, 1980, public hearing, statements were made by four persons. Mr. Tom Smith, a local resident, and Dr. Paul Johnson, a research entomologist, supported the listing proposal and designation of Critical Habitat. Mrs. Elizabeth Starker Cameron, a landowner in the Critical Habitat area, expressed concern that some land uses could be precluded on her property as a result of Critical Habitat designation. Mr. B. Bond Starker stated that possible economic consequences of preserving species or subspecies should be considered.

#### Conclusion

With respect to Dr. Rindge's comments concerning the distribution and status of the Oregon silverspot butterfly, the two lepidopterists who have most recently studied this subspecies, Dr. David McCorkle of the Oregon College of Education and Dr. Paul Johnson of Oregon State University, feel that the subspecies is restricted to coastal areas. If the

butterfly were not listed, it would be impossible to designate Critical Habitat to protect the salt spray meadow habitat because Critical Habitat can only be designated in relation to a listed species. In response to Dr. Miller's comments, the Service has no present plans to acquire property in the Tenmile Creek Area. This area is not being included in the present Critical Habitat designation, although it could be proposed for inclusion in the future, since it represents one of the few known colonies of the Oregon silverspot butterfly. With regard to the comments of the Oregon Office of State Forester, no adverse effects on timber production in Lane County is anticipated. The U.S. Forest Service has no plans to cut the forest areas bordering the salt spray meadow, which are used for shelter by the butterflies. In general, the Forest Service's plans to protect and manage the area would be the same regardless of Federal listing of the Oregon silverspot butterfly and designation of its Critical Habitat. The Forest Service is aware of the butterfly and salt spray meadow areas and plans to manage these areas for their unique scenic and biological features. Critical Habitat designation for the Oregon silverspot butterfly is not expected to affect timber production in Lane County.

The Fish and Wildlife Service accepted the recommendation of the Forest Service and moved the eastern boundary of the proposed Critical Habitat 1,500 feet to the West to bring the area into a more accurate representation of the butterflies' habitat. The Fish and Wildlife Service does not know of or anticipate effects on privately held lands within the Critical Habitat. In response to Mr. Sherwood's concerns regarding adverse effects of Critical Habitat designation on his land, the Service has been unable to identify any specific effects of such designation. Service personnel, including an economist, met with Mr. Renaghan, the party who holds an option to buy Mr. Sherwood's land. Mr. Renaghan's tentative plans for development involved no apparent Federal participation nor did it appear that such development would result in significant adverse effects on the butterfly's habitat. Mr. Renaghan has been unable to have Lane County officials review and approve his development plans, but this situation has existed prior to Critical Habitat reproposal for the Oregon silverspot butterfly. The U.S. Forest Service and the Fish and Wildlife Service realize that management of the salt spray meadow will be necessary, and believe that such activities will

have to be carefully planned to maintain the salt spray meadow habitat, and that unregulated human activities in the area are not compatible with the salt spray meadow ecosystem. Regarding the comments of Mrs. Cameron and Mr. Starker, the Service considers economic and other impacts in the designation of Critical Habitat. No impacts on activities on Mrs. Cameron's land are presently known.

The Service must point out that considerable development constraints already exist on the lands in question due to local (Lane County) zoning. Critical Habitat designation would not necessarily prevent any activity with Federal involvement in the included area; depending on the proposed activity, consultation between the Fish and Wildlife Service and the relevant Federal agency might be necessary. Similar consultation could occur in areas outside the Critical Habitat if the continued existence of the Oregon silverspot butterfly was likely to be jeopardized. Critical Habitat designation is a means of alerting Federal agencies to the presence of a Threatened or Endangered species in a particular area.

Several persons recommended inclusion, either at the present or in the future, of additional lands in Critical Habitat for the Oregon silverspot butterfly. Due to some uncertainty concerning the status of the butterfly and the condition of the salt spray meadow habitat at other localities, Critical Habitat designation has been restricted at this time to portions of Lane County where a viable population of the butterfly is known to occur. It may be necessary to consider other areas in the formulation of a recovery plan for the butterfly. The Service feels that it should proceed with the final rulemaking at this time with the information available. Protective provisions of the Endangered Species Act will apply to the Oregon silverspot butterfly throughout its range.

After a thorough review and consideration of all the information available, the Director has determined that the Oregon silverspot butterfly is in danger of becoming extinct throughout all of its range. Two of the five factors described in Section 4(a) of the Act, and affecting the butterfly, were outlined in the July 3, 1978 proposal (43 FR 28938-45) to list this butterfly as Threatened. The five criteria as described in that proposal are reprinted below:

(1) *The present or threatened destruction, modification, or curtailment of its habitat or range.* This species is found only in the salt spray meadows along the extreme edge of the Pacific Coast. It has been reported from one site in Washington and seven sites in

Oregon. Colonies of butterfly are now either severely reduced in number or extirpated at all the sites except the Rock Creek-Big Creek site in Lane County, Oregon.

(2) *Overutilization for commercial, sporting, scientific, or educational purposes.* Not applicable to this species.

(3) *Disease or predation.* This factor is not known to affect the present status of this species.

(4) *The inadequacy of existing regulatory mechanisms.* There currently exist no State or Federal laws protecting this species or its habitat.

(5) *Other natural or manmade factors affecting its continued existence.* None.

#### Critical Habitat

Subsection 4(a)(1) of the Act states in pertinent part:

At the time any such regulation (to determine a species to be Endangered or Threatened) is proposed, the Secretary shall be regulation, to the maximum extent prudent, specify any habitat of such species which is then considered to be Critical Habitat.

50 CFR Part 424 defines Critical Habitat as:

(i) The specific areas within the geographical area occupied by the species, at the time it is listed in accordance with the Act, on which are found those physical or biological features (I) essential to the conservation of the species and (II) which may require special management considerations or protection; and

(ii) Specific areas outside the geographical area occupied by the species at the time it is listed upon determination by the Secretary that such areas are essential for the conservation of the species.

The Service has concluded that an area in Lane County, Oregon should be designated as Critical Habitat for the Oregon silverspot butterfly. This area incorporates suggestions made by the U.S. Forest Service, and is the only known remaining site where a healthy population of the butterfly exists. The physical and biological features of the butterfly's habitat are such as to require management considerations and protection. The biological constituent elements in the Critical Habitat which are essential to the conservation of the Oregon silverspot butterfly are included below in the description of Critical Habitat for this species.

Section 4(b)(4) of the Act requires the Service to consider economic and other impacts of specifying a particular area as Critical Habitat. The Service has prepared an impact analysis which has been used as the basis for a decision that economic and other impacts of this action are insignificant for the foreseeable future.

### Effect of the Rulemaking

All prohibitions of 50 CFR 17.31 pertaining to Threatened Wildlife will apply to the Oregon silverspot butterfly. These prohibitions, in part, make it illegal for any person subject to the jurisdiction of the United States to take, import, or export, ship in interstate commerce in the course of a commercial activity, or sell or offer for sale in interstate or foreign commerce this species. It also will be illegal to possess, sell, deliver, carry, transport or ship any specimens illegally taken. Certain exceptions will apply to agents of the Service and State conservation agencies. Permits for specified purposes will be available in accordance with 50 CFR 17.32.

#### Section 7(a) of the Act provides:

**Federal Agency Actions and Consultations**—(1) The Secretary shall review other programs administered by him and utilize such programs in furtherance of the purposes of this Act. All other Federal agencies shall, in consultation with and with the assistance of the Secretary, utilize their authorities in furtherance of the purposes of this Act by carrying out programs for the conservation of endangered species and threatened species listed pursuant to section 4 of this Act.

(2) Each Federal agency shall, in consultation with and with the assistance of the Secretary, insure that any action authorized, funded, or carried out by such agency (hereinafter in this section referred to as an "agency action") is not likely to jeopardize the continued existence of any endangered species or threatened species or result in the destruction or adverse modification of habitat of such species which is determined by the Secretary, after consultation as appropriate with affected States, to be critical, unless such agency has been granted an exemption of such action by the Committee pursuant to subsection (h) of this section. In fulfilling the requirements of this paragraph each agency shall use the best scientific and commercial data available.

(3) Each Federal agency shall confer with the Secretary on any agency action which is likely to jeopardize the continued existence of any species proposed to be listed under section 4 or result in the destruction or adverse modification of critical habitat proposed to be designated for such species. This paragraph does not require a limitation on the commitment of resources as described in subsection (d)

Provisions for Interagency Cooperation were published in the Federal Register on January 4, 1978 (43 FR 870-876), and codified at 50 CFR Part 402. These regulations are intended to assist Federal agencies in complying with Section 7 of the Act. The rule now being issued will require Federal agencies to satisfy these statutory and regulatory obligations with respect to the Oregon silverspot butterfly. These agencies will be required not only to insure that actions authorized, funded, or carried out by them are not likely to jeopardize the continued existence of this species, but also to insure that their actions do not result in the destruction or adverse modification of the habitat that has been determined by the Secretary to be critical.

Section 4(f)(4) of the Act requires, to the maximum extent practicable, that any final regulation specifying Critical Habitat be accompanied by a brief description and evaluation of those activities which, in the opinion of the Director, may adversely modify such habitat if undertaken, or may be impacted by such designation. Such activities are identified below for the Oregon silverspot butterfly.

1. A threat to the continued existence of this species is real estate development in the coastal salt spray meadows. Several of the former colonies have been extirpated or reduced in size by housing development.

2. Increased recreational use could adversely affect the butterfly's habitat. Detrimental activities could include trampling of the meadow habitat, damage from vehicles, and development of trails and other recreational facilities without considering the butterfly's needs.

3. Modification of forest areas adjoining the salt spray meadows could eliminate refuge areas used for shelter by the butterfly.

The only apparent Federal involvement affecting the proposed critical Habitat is the Forest Service's management of portions of Siuslaw National Forest. The Forest Service intends to protect the Oregon silverspot butterfly and its habitat, and has provided the Fish and Wildlife Service

with information about anticipated costs of management of the salt spray meadow habitat. This information is included in the final economic analysis which the Fish and Wildlife Service has prepared regarding this rulemaking. Designation of Critical Habitat will not impact upon the other activities listed.

### Effect Internationally

The Service will review the status of the Oregon silverspot butterfly to determine whether it should be proposed to the Secretariat of the Convention on International Trade in Endangered Species of Wild Fauna and Flora for placement upon the appropriate appendix to that Convention and whether it should be considered under the Convention on Nature Protection and Wildlife Preservation in the Western Hemisphere, or other appropriate international agreements.

### National Environmental Policy Act

A final environmental assessment has been prepared and is on file in the Service's Office of Endangered Species. This assessment is the basis for a decision that this rule is not a major Federal action that significantly affects the quality of the human environment within the meaning of Section 102(2)(C) of the National Environmental Policy Act of 1969.

The primary author of this rule is Dr. Michael M. Bentzien, Office of Endangered Species, U.S. Fish and Wildlife Service, Washington, D.C. 20240 (703/235-1975).

**Note.**—The Department of the Interior has determined that this is not a significant rule and does not require preparation of a regulatory analysis under Executive Order 12044 and 43 CFR Part 14.

### Regulations Promulgation

Accordingly, subparts B and I of Part 17 of Chapter I of Title 50 of the U.S. Code of Federal Regulations is amended as follows:

#### § 17.11 [Amended]

1. Section 17.11 is amended by adding the Oregon silverspot butterfly to the list, alphabetically, under "Insecta" as indicated below:

Species		Historic range	Vertebrate population where endangered or threatened	Status	When listed	Critical habitat	Special rules
Common name	Scientific name						
Butterfly: Oregon silverspot.....	<i>Speyeria zerene hippolyta</i> .....	Oregon, Washington.	NA.....	T.....	.....	§ 17.95(i)	NA

#### § 17.95 [Amended]

2. Section 17.95(i) is amended by adding Critical Habitat for the Oregon Silverspot butterfly as follows:

#### Oregon Silverspot Butterfly

(*Speyeria zerene hippolyta*)

Oregon. Lane County T. 16 S., R. 12 W.  
Those portions of section 15 and of the south

half of section 10 which are west of a line parallel to, and 1500 feet west of, the eastern section boundaries of sections 10 and 15.

Constituent biological elements essential to the continued existence of the Oregon